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[57] **ABSTRACT**

A dual aperture optical scanner which produces horizontal, vertical, and diagonal scan patterns. The optical scanner includes a housing having a substantially vertical surface containing a first aperture and a substantially horizontal surface containing a second aperture. A laser diode produces a laser beam. A spinner produces first, second, and third groups of scanning beams. A plurality of pattern mirrors reflects the first group of scanning beams in a substantially horizontal direction through the first aperture, the second group of scanning beams in a substantially downward diagonal direction through the first aperture, and the third group of scanning beams in a substantially vertical direction through the second aperture.

35 Claims, 7 Drawing Sheets
